IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---|---|---|---|
| APPLICANT: | Jianping Zhang et al. | § | GROUP ART UNIT: |
| | | § | 1621 |
| SERIAL NO.: | 10/023,258 | § | |
| | | § | EXAMINER: |
| FILED: | December 14, 2001 | § | Jafar F. Parsa |
| | | § | |
| FOR: | Slurry Bed Reactor | § | |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILED IN CONJUNCTION WITH A REQUEST FOR CONTINUED EXAMINATION**

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Atty. Dkt. No.: 1856-23900
Date: December 29, 2004

Sir:

In accordance with 37 CFR §1.97, §1.98, applicant is providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. If this application was filed prior to June 30, 2003, a copy of each publication listed on Form PTO-1449 is enclosed herewith. This information is supplemental to the Information Disclosure Statements and Forms PTO 1449 filed in the above-referenced case on February 20, 2003 and November 10, 2003

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Respectfully submitted,

Marcella D. Watkins
Reg. No. 36,962
CONLEY ROSE, P.C.
P. O. Box 3267
Houston, Texas 77253-3267
(713) 238-8000
ATTORNEY/AGENT FOR APPLICANT

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE


Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

| Sheet | 1 | of | 1 |
|---|---|---|---|

| *Complete if Known* | |
|---|---|
| Application Number | 10/023,258 |
| Filing Date | December 14, 2004 |
| First Named Inventor | Jianping Zhang |
| Group Art Unit | 1621 |
| Examiner Name | Jafar F. Parsa |
| Attorney Docket Number | 1856-23900 |

**U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Document Number<br>Number-Kind Code [2] *(if known)* | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|
| | | US- | | | |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Foreign Patent Document<br>Country Code[3] Number [4] Kind Code[5] *(if known)* | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where RelevantPassages or Relevant Figures Appear | T[6] |
|---|---|---|---|---|---|---|
| | | | | | | |

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | AA | S. C. Saxena et al., *Mathematical Modeling of Fischer-Tropsch Slurry Bubble Column Reactors,* Chem. Eng. Con. Vol. 40 (1986) pp. 97-151 | |
| | AB | D. Bukur et al., *Gas Holdup and Solids Dispersion in a Three-Phase Slurry Bubble Column,* AlChE J. 36, 1990, p. 1731-1735 | |
| | AC | P.M. Calderbank et al., *The Continuous Phase Heat and Mass-Transfer Properties of Dispersions,* Chem. Eng. Sci. 16, 1961, p. 39 | |
| | AD | Y. Kato et al., *The Behavior of Suspended Solid Particles and Liquid Bubble Columns,* J. Chem. Eng. Japan 5, 1972, p. 112 | |
| | AE | W. D. Becker, *Hydrodynamic Properties of the Fischer-Tropsch Slurry Process;* Ind. Eng. Chem. Process Des. Dev. 19, 1980, p. 699-708 | |
| | AF | D. Schanke et al., *Optimization of Fischer-Tropsch Reactor Design and Operations in GTL Plants;* Natural gas conversion VI; proceedings of the 6th Natural Gas Conversion Symposium, June 17-22, 2001, Alaska USA; in Studies in Surface Science and Catalysis, 136, 2001, p. 239 | |
| | AG | R. Krishna, *A Scale-up Strategy for a Commercial Scale Bubble Column Slurry Reactor for Fischer-Tropsch Synthesis,* Oil and Gas Science and Technology-Rev. 55, 2000, p. 359-393 | |
| | AH | G. van der Laan et al., *Multicomponent Reaction Engineering Model for Fe-Catalized FT Synthesis in Commercial Scale Slurry Bubble Column Reactors,* Chem. Eng. Science 54, 1999, p. 5013-5019 | |
| | AI | R. Krishna et al., *Design and Scale-Up of the FT Bubble Column Slurry Reactor,* Fuel Processing Technology 64, 20000, p. 73-105 | |

| Examiner Signature | | Date Considered | |
|---|---|---|---|

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.